

CLAIMS

What is claimed is:

1. An information storage medium, comprising:
audiovisual (AV) data;
navigation data that is a set of navigation commands related to reproduction of the AV data; and
an interactive graphic stream which controls reproduction of the AV data, wherein language information of the interactive graphic stream is changeable only by the navigation commands and not changeable by a user's operations.
2. The information storage medium of claim 1, wherein the interactive graphic stream is a menu stream used in reproducing the AV data.
3. A multimedia data reproducing apparatus, comprising:
a memory which stores attribute information including language information of an interactive graphic stream controlling reproduction of the multimedia data;
a processor which, according to the language information, loads and executes a program to select an interactive graphic stream written in the language of the language information; and
a decoder which receives and decodes the selected interactive graphic stream.
4. The reproducing apparatus of claim 3, wherein the interactive graphic stream is a menu stream that is not changeable by a user's operation.
5. The reproducing apparatus of claim 3, wherein the attribute information includes menu language information, viewer class information, sub-title language information, and audio language information.
6. The reproducing apparatus of claim 3, wherein the program is included in the interactive graphic stream.

7. The reproducing apparatus of claim 3, wherein the interactive graphic stream has text information for each language and shares information irrelevant to language with other interactive graphic streams.

8. The reproducing apparatus of claim 7, wherein the text information is stored in the form of text data or graphic data.

9. A multimedia data reproducing method, comprising:
reading attribute information containing language information of interactive graphic streams controlling reproduction of the multimedia data;
according to the language information, loading and executing a program to select one of the interactive graphic streams written in a language corresponding to the language information;
and
receiving and decoding the selected interactive graphic stream.

10. The reproducing method of claim 9, wherein the selected interactive graphic stream is a menu stream that is not changeable by a user's operation.

11. The reproducing method of claim 9, wherein the attribute information comprises menu language information, viewer class information, sub-title language information and audio language information.

12. The reproducing method of claim 9, wherein the interactive graphic stream has text information for each language and shares information irrelevant to language with other interactive graphic streams.

13. An information storage medium storing multimedia data, comprising:
a plurality of menu streams which comprise navigation data and each correspond to a different language;
shared audiovisual (AV) data which the navigation data controls reproduction of the shared AV data independent of the menu stream language; and

a plurality of interactive text information each corresponding to a different language and which the navigation data controls reproduction of the interactive text information based on the language of each corresponding menu stream.

14. The information storage medium of claim 13, further comprising program commands which control which of the plurality of menu streams is to be reproduced.

15. The information storage medium of claim 13, wherein storage space of the information storage medium is optimized by sharing the AV data among the plurality of menu streams.

16. The information storage medium of claim 13, wherein the plurality of menu streams are multiplexed with respective corresponding interactive text information.

17. A information storage medium reproducing apparatus reproducing an information storage medium, comprising:

a system register which stores language information;

a processor which selects a menu stream based on the stored language information from the information storage medium; and

a decoder which decodes the selected menu stream, wherein the menu stream controls reproduction of non-language specific audiovisual information and text information corresponding to the stored language information from the information storage medium.

18. The reproducing apparatus of claim 17, wherein the processor selects the menu stream based on a menu language in the stored language information and the processor executes program commands corresponding to the menu language which selects the corresponding menu stream to be reproduced.

19. A method of reproducing multimedia data from an information storage medium, comprising:

reading menu language information from a player status register on the information storage medium;

selecting a menu stream based on the read menu language information;

executing the selected menu stream; and
reproducing non language specific audio visual data from the information storage medium together with the selected menu stream.

20. The method of claim 19, further comprising:
receiving a language selection command during the reproducing the non language specific audio visual data and the selected menu stream; and
changing from the selected menu stream to a different language menu stream based on the received language selection command.

21. The method of claim 19, further comprising:
comparing the read menu language information to a language identification in the selected menu stream to check for an error.

22. A computer readable recording medium recording a program that executes a method of reproducing multimedia data from an information storage medium, wherein the method comprises:

reading attribute information containing language information of an interactive graphic stream controlling reproduction of the multimedia data;
according to the language information, loading and executing a program to select an interactive graphic stream written in the language of the language information; and
receiving and decoding the selected interactive graphic stream.

23. A computer readable recording medium recording a program that executes a method of reproducing multimedia data from an information storage medium, wherein the method comprises:

reading menu language information from a player status register on the information storage medium;
selecting a menu stream based on the read menu language information;
executing the selected menu stream; and
reproducing non language specific audio visual data from the information storage medium together with the selected menu stream.

24. A method of storing multimedia data on an information storage medium, comprising:
- multiplexing a menu stream comprising a plurality of text information corresponding to different languages and shared data which is common to each of the different languages;
 - storing the multiplexed menu stream on the information storage medium in an efficient manner which does not redundantly store the shared data.